

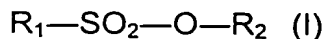
semi-finished products and shaped materials, leading to unsatisfactory material properties.

The invention has as its object compositions of melamine resin precondensates and curing agents which are suitable for melt processing to amino resin products.

The object has been achieved by compositions for producing amino resin products by melt processing, the compositions being composed in accordance with the invention of

- A) from 95 to 99.9% by mass of solvent-free meltable polycondensates of melamine resins having molar masses of 300 to 300 000,
- B) from 0.1 to 5% by mass of weak acids as thermoinducible curing agents, composed of

B1) acid formers of the type of blocked sulphonic acid of the general formula (I)



$R_1$  = unsubstituted or substituted aryl or biphenyl

$R_2$  = 4-nitrobenzyl, pentafluorobenzyl or  $-N=C \begin{matrix} \swarrow & \text{CO}-R_3 \\ \searrow & N(R_4)(R_5) \end{matrix}$

substituents

where

$R_3$  = non-substituted or substituted alkyl or aryl,

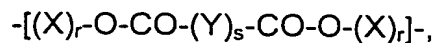
$R_4$  = H,  $C_1$ - $C_{12}$ -alkyl, phenyl,  $C_2$ - $C_9$ -alkanoyl or benzyl,

$R_5$  = H,  $C_1$ - $C_{12}$ -alkyl or cyclohexyl,

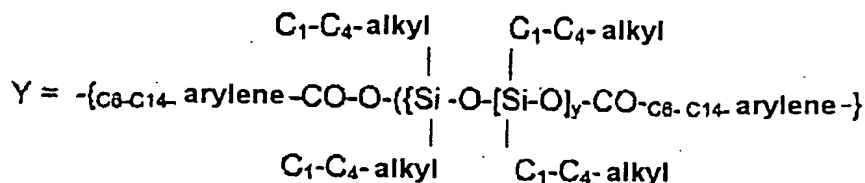
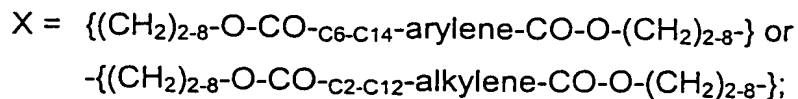
or  $R_3$  and  $R_4$  or  $R_5$  together with the atoms to which they are attached form a 5- to 8-membered ring which can be fused by 1 or 2 benzo radicals,

B2)  $C_4$ - $C_{18}$  aliphatic and/or  $C_7$ - $C_{18}$  aromatic carboxylic acids,

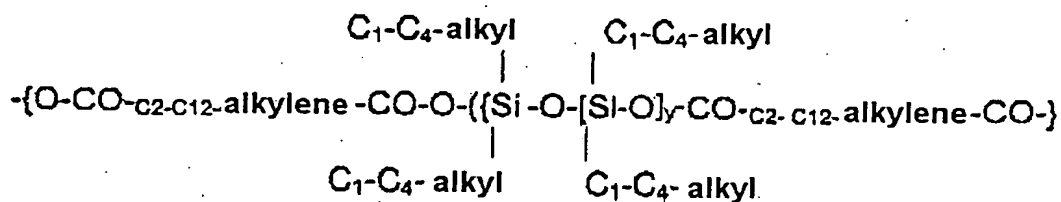
B3) alkali metal salts or ammonium salts of phosphoric acid,



in which

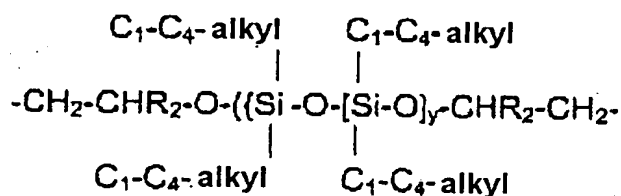


or



$r = 1 \text{ to } 70$ ;  $s = 1 \text{ to } 70$  and  $y = 3 \text{ to } 50$ ;

- polyether sequences containing siloxane groups, of the type



where  $R_2 = H$ ;  $C_1-C_4\text{-alkyl}$  and  $y = 3 \text{ to } 50$ ;

- sequences based on alkylene oxide adducts of melamine, of the type of 2-amino-4,6-di- $C_2-C_4\text{-alkyleneamino}$ -1,3,5-triazine sequences;
- phenol ether sequences based on dihydric phenols and  $C_2-C_8$  diols, of the type of  $-C_2-C_8\text{-alkylene}-O-C_6-C_{18}\text{-arylene}-O-C_2-C_8\text{-alkylene}-$  sequences;

are linked by bridge members  $-NH-CHR_2-NH-$  or

$-\text{[CH}_2\text{-CH}_2\text{-O-CH}_2\text{-CH}_2\text{]}_n-$ ,  $-\text{[CH}_2\text{-CH(CH}_3\text{)-O-CH}_2\text{-CH(CH}_3\text{)]}_n-$ ,

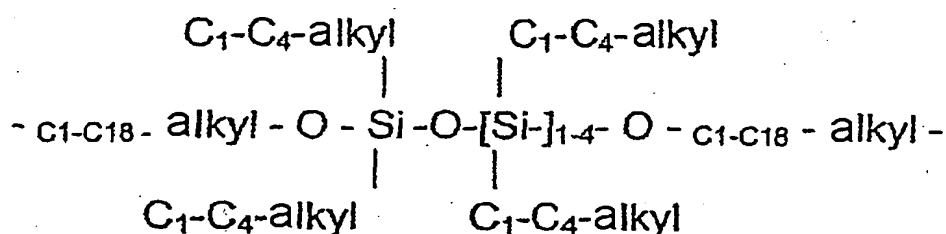
$-\text{[O-CH}_2\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{]}_n-$ ,

$-\text{[(CH}_2\text{)}_{2-8}\text{-O-CO-C}_6\text{-C}_{14}\text{-arylene-CO-O-(CH}_2\text{)}_{2-8}\text{]}_n-$ ,

$-\text{[(CH}_2\text{)}_{2-8}\text{-O-CO-C}_2\text{-C}_{12}\text{-alkylene-CO-O-(CH}_2\text{)}_{2-8}\text{]}_n-$ ,

where  $n = 1$  to  $200$ ;

- sequences containing siloxane groups, of the type



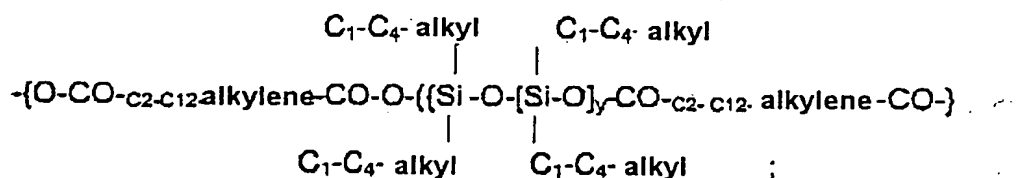
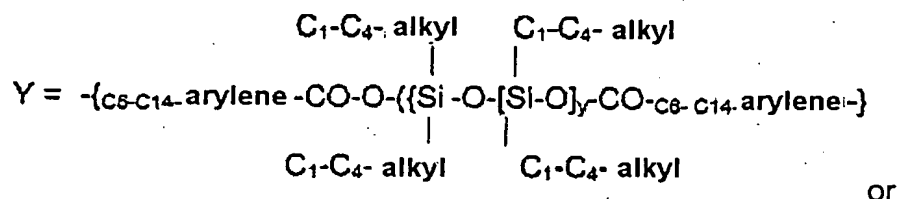
- polyester sequences containing siloxane groups, of the type

$-\text{[(X)}_r\text{-O-CO-(Y)}_s\text{-CO-O-(X)}_r\text{]}_n-$ ,

in which

$X = \{(\text{CH}_2)_{2-8}\text{-O-CO-C}_6\text{-C}_{14}\text{-arylene-CO-O-(CH}_2\text{)}_{2-8}\}$  or

$\{(\text{CH}_2)_{2-8}\text{-O-CO-C}_2\text{-C}_{12}\text{-alkylene-CO-O-(CH}_2\text{)}_{2-8}\}$ ;



$r = 1$  to  $70$ ;  $s = 1$  to  $70$  and  $y = 3$  to  $50$ ;

- polyether sequences containing siloxane groups, of the type